BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP (303) 740-1980

Title: Fault Tolerant Automatic Protection Switching for Distributed Routers

Inventor: Alexander et al. Filing Date: February 15, 2001 Application No. 09/784,841 Sheet: 1 of 6

Attorney Docket No: 002717.P016

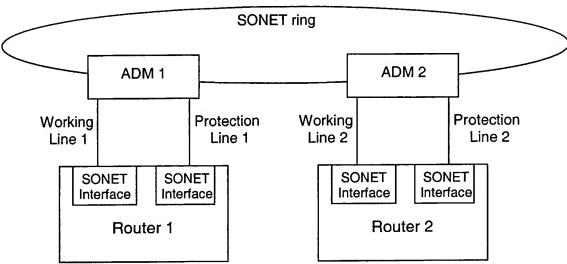


FIG. 1 (Prior Art)

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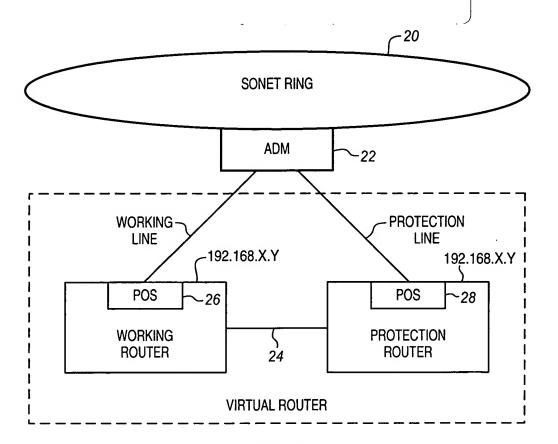


FIG. 2

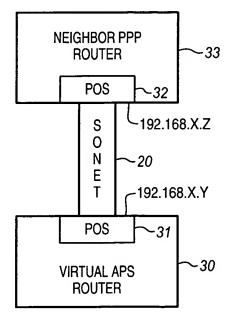


FIG. 3

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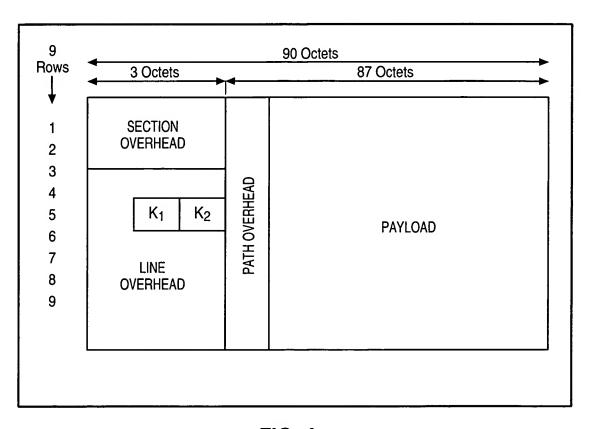


FIG. 4
PRIOR ART

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Interframe	0111 1110
Checksum (FCS)	1 or 2 bytes
Data	0 to X bytes
Control	1 or 2 bytes
Address	1 or 2 bytes
Interframe	0111 1110

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Flag	0111 1110
FCS	2 or 4 bytes
Information	Variable/Pad
Protocol ID	1 or 2 bytes
Control	0000 0011
Address	1111 1111
Flag	0111 1110

Basic PPP frame format

FIG. 5 PRIOR ART

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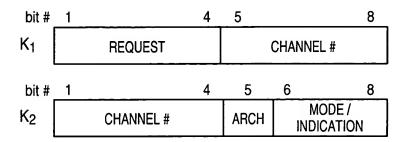


FIG. 6A PRIOR ART

REQUEST

0000	No Request
0001	Do Not Revert (nonrevertive only)
0010	Reverse Request (bidirectional only)
0100	Exercise
0110	Wait-To-Restore (revertive only)
1000	Manual Switch
1010	Signal Degrade
1100	Signal Fail
1100	Forced Switch
1111	Lockout of Protection

FIG. 6B PRIOR ART

MODE / INDICATION

100	Provisioned for Unidirectional Switching Mode
101	Provisioned for Bidirectional Switching Mode
110	Line Remote Defect Indication (RDI-L)
111	Line Alarm Indication Signal (AIS-L)

FIG. 6C PRIOR ART

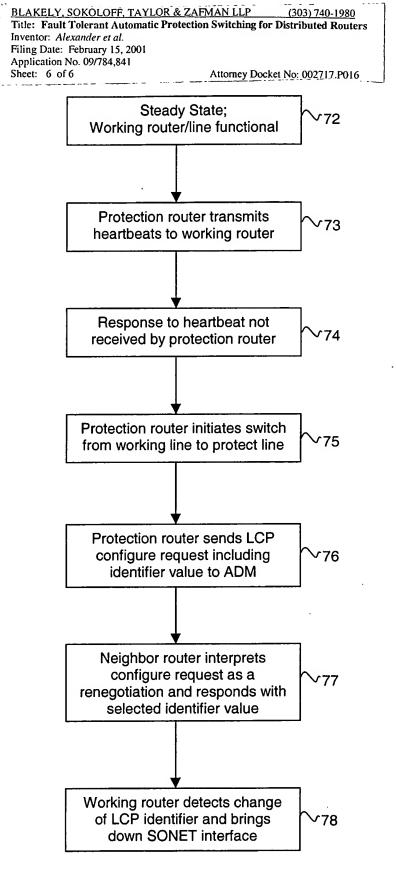


FIG. 7